

INDEX

- Accident prevention, 53
Adult respiratory distress syndrome, 14, 15
Airway management, 48
Albumin solutions, 3-4
 adverse effects, 3
 blood cross-matching, 3
 comparison with Ringer's lactate, 5
 concern over use, 3-4
 cost, 4, 5, 18
 in plasma exchange, 17
Albumin trapping, 14
Ancrod (Arvin), 23, 28
Antibiotics, 49, 50
Anticoagulants, 18
ARDS *see* Adult respiratory distress syndrome

Blast injury, 48
Blast lung, 49, 51
Blood transfusion, 48
 historical aspects, 1
 cross-matching, 48
Blood viscosity, 23, 24, 32
 in coronary artery disease, 32
 in peripheral vascular disease, 32
 in intermittent claudication, 32
Burns, 49, 50

Calcium ions, 3, 8
Calf blood flow, 24, 27, 32
Chest drains, 48, 50
Coagulation factors, 19, 40-42
Colloids, 2-4, 13-14
 anaphylactic reactions, 5
 vs crystalloids, 13-14
 and ARDS, 14-15
Cryoprecipitate, 17
Crystalloids, 4
 complication, 5
 interstitial space, 10
 unsuitable for replacing intravascular volume, 10

Dextran, 2-3, 10
 in haemodilution, 35
Dextrose, 4, 10
Diazepam, 49

Exercise tolerance, 24, 27, 28

Fluid compartments, 9-12, 14
 manipulation of, 11
 measurement of, 9
Fluid loss
 from intravascular space, 2
Fluosol-DA, 7
Fresh frozen plasma, 17

Gelatin, 3
 blood cross-matching, 3
 modified fluid gelatin, 10, 39
 metabolic fate, 39
 safety, 39
Gentamicin, 49

Haematocrit
 association with viscosity, 32
 and optimal oxygen transport, 33
Haemaccel *see* polygeline,
Haemodilution, 31-37, 39-45
 blood derivative sparing, 35, 44
 blood rheology, 34
 antithrombotic effect, 44, 45
 contra-indications, 33, 37
 effect on coagulation, 41, 42-44
 effect on platelet count, 41, 42
 effect on skin flap survival, 32-33
 effect on wound healing, 32-33, 34
 femoro-popliteal bypass, 37
 ischaemic heart disease, 37
 normovolaemic, in colorectal surgery, 33
 normovolaemic, in dogs, 31, 32, 40
 normovolaemic, in intermittent claudication, 32
 normovolaemic, in rats, 34
 normovolaemic, in surgical patients, 34, 40-41
 polygeline, 35, 40-41
 dextran, 35
 normovolaemic, in ulcer patients, 33
 tissue oxygenation, 34
Haemofiltration, 12
Haemoglobin, 32
Haemoglobin solutions, 5-6
Hartmann's solution, 10, 14, 15
Hydroxyethyl starch, 5, 10

Immunoglobulins, 19
Infusion pumps, 12

58 Index

- Intermittent claudication, 23, 32
- Interstitial space, 9, 10, 11, 12
- Intracellular space, 9, 10, 11
- Intravascular space, 9, 10, 11, 12
- Ischaemic wound healing, 32-33, 34
 - effect of haemodilution, 32-33, 34
 - rat model, 34
- Ketoacidosis, 10
- Laryngeal oedema, 51
- Methylprednisolone, 49, 50-51
- Metronidazole, 49, 50
- Morphine, 48
- Multilumen central catheters, 12
- Nalorphine, 49
- Normal saline, 4, 14
- Outcome, life or death, 13
- Oxygen-carrying solutions, 5-7
- Penetrating wounds, 49
 - abdominal, 49
 - head, 49
- Penicillin, 49
- Perfluorocarbons, 7
- Peripheral vascular disease, 23
 - blood viscosity, 23
- Plasma exchange, 17-21, 23-29
 - effect on coagulation factors, 19, 27
 - effect on immunoglobulins, 19
 - effect on plasma proteins, 20, 24, 27
 - effect on platelet count, 18
 - effect on viscosity, 24
 - in peripheral vascular disease, 23-29
 - regimen, 18, 24
 - side-effects, 20
- Plasma exchange fluids
 - albumin, 17
 - cryoprecipitate, 17
 - fresh frozen plasma, 17
 - polygeline, 18, 20, 23, 24
 - PPF, 17, 18
- Plasma proteins, 20, 24, 27
- Plasma protein fraction *see* PPF
- Platelet count, 18, 32
- Platt Report, 54
- Polygeline, 3, 14, 18, 20, 23, 24, 28-29, 35, 39,
44, 48
 - plasma exchange, 18, 20, 23, 24
 - haemodilution, 35, 39
 - gelling problems, 50
- PPF, 3, 4
 - plasma exchange, 17, 18
- Pre-tibial flaps, 36, 37
- Replacement fluids,
 - oxygen-carrying capacity, 5
 - guidelines for use, 10
- Ringer's lactate, 4
 - vs* 5% albumin, 5
 - cost, 5
- Sepsis, 13
- Shock lung, 15
- Smoke inhalation, 49, 50
- Sodium lactate, 48
- Sulphadimidine, 49
- Tensometry, 37
- Tetanus toxoid, 49
- Trauma services,
 - in peacetime, 53-56
 - duty rosters, 55
 - 'normal office hours', 55
 - 'outside office hours', 55
 - referral centres, 54-56
 - relationship with orthopaedics, 55, 56
 - in warfare, 47-51
- Traumatology
 - creation of speciality, 54
- Triage, 47
- Venflon, cannula, 48
- Wound-breaking strength, 34, 37

